

W. M. Welch Manufacturing Company

Laboratory Furniture Factory
Manitowoc, Wisconsin, U. S. A.

General Office and Scientific Apparatus Factory
1516 Orleans St., Chicago, U. S. A.

Manufacturers of Laboratory, Vocational, Library Furniture, Apparatus and Supplies
Sales Representatives in Principal Cities

Manual Training Benches

All lumber used in WELCH furniture is carefully selected and carefully dried in Vapor Kilns, to assure our clients of high-grade materials, which, with good workmanship, insures long and satisfactory service.

The following specifications apply to all Manual Training benches listed below, except where otherwise noted.

Wood tops are of Northern-grown hard Maple strips, $2\frac{3}{4}$ " thick, joined with double tongue and groove construction. This joint increases the gluing surface greatly, and also compels the use of more lumber in the top. It has been found that the added strength justifies this method of construction.

The tops are further safeguarded by the use of bolsters, which are tenoned, glued and bolted (not screwed) across the ends.

Wood frames are of full mortise and tenon construction, reinforced with machine bolts, insuring absolute rigidity. The metal leg units are of steel with welded cross and longitudinal bracing. Flared feet provide ample contact with the floor.

Drawers are of tenon and groove construction, front and

back, the sides, front and back are grooved on the inside to receive 3-ply laminated bottoms, resulting in the full framed-in drawers, which prevents the bottom from working out, and also holds the drawer square at all times. Drawers have full lap construction. Partitions are provided between the drawers to prevent pupils from getting into any drawers but their own, and also makes the drawer compartments dust-proof. All drawers are varnished on the inside.

All wood parts of benches are finished natural. Metal leg units are finished Olive Green baked enamel.

When locks are called for, we use extra heavy cast brass cylinder five-tumbler locks as manufactured by the Yale & Towne Manufacturing company of Stamford, Connecticut. These locks are all different and are furnished with two keys each. Masterkeying can be had at a small additional charge.

Benches are regularly equipped with quick-action, rapid-thread vises and bench dog and stop.

All materials being carefully selected and carefully assembled, insures a quality article, with rigidity, simplicity and adaptability as the major items of consideration.



Top measures 52" long, 36" wide, and bench is 32" high. Tool recess is 7" wide, furnished in the center of the desk.

Bench is furnished with rapid-thread, quick-action vise.

- No. 9850—As illustrated.....shpg. wt. 250 lbs.
No. 9852—Same as No. 9850, but with one drawer on each side measuring $30\frac{3}{4}$ " wide, $14\frac{3}{4}$ " front to back and 5" deep, inside dimensions, WITHOUT LOCKS.....shpg. wt. 270 lbs.
No. 9853—Same as No. 9852, but WITH LOCKS.....shpg. wt. 270 lbs.
No. 9750—Similar to No. 9850, with wood base instead of steel legs, but without drawers.....shpg. wt. 200 lbs.
No. 9752—As illustrated, with wood base, with one drawer in each side, WITHOUT LOCKS.....shpg. wt. 220 lbs.
No. 9753—Same as No. 9752, but WITH LOCKS.....shpg. wt. 220 lbs.

No. 9758 Double Manual Training Bench



Top measures 52" long, 36" wide, and the bench is 32" high. Tool recess is 7" wide, in the center in the desk. One large drawer measures $30\frac{3}{4}$ " wide, $14\frac{3}{4}$ " front to back and 5" deep, inside measurements. (One large drawer in each side of bench.) Six individual drawers in each side (12 in all), measure $14\frac{1}{2}$ " wide, $14\frac{3}{4}$ " front to back, and 5" deep, inside measurements. Ends of the bench are paneled.

- Bench is furnished with rapid-thread, quick-action vise with dog, also with stops.
No. 9758—As illustrated, WITHOUT LOCKS.....shpg. wt. 400 lbs.
No. 9759—Same as No. 9758, but WITH LOCKS ON THE SMALL DRAWERS ONLY.....shpg. wt. 400 lbs.
No. 9760—As illustrated, with six large drawers, three on each side, measuring $30\frac{3}{4}$ " wide, $14\frac{3}{4}$ " front to back and 5" deep, WITHOUT LOCKS.....shpg. wt. 320 lbs.
No. 9761—Same as No. 9760, but WITH LOCKS.....shpg. wt. 320 lbs.

No. 9712 Single Manual Training Bench



Top measures 52" long, 22" wide and is 32" high. Tool recess is 7" wide and is complete with tool rack at rear. One large drawer measures $30\frac{3}{4}$ " wide, $14\frac{3}{4}$ " front to back and 5" deep, inside measurements. Four individual smaller drawers measure $14\frac{1}{2}$ " wide, $14\frac{3}{4}$ " front to back and 5" deep, inside measurements. Bench is furnished with rapid-thread, quick-action vise with dog.

- No. 9712—As illustrated, WITHOUT LOCKS.....shpg. wt. 230 lbs.
No. 9713—Same as No. 9712, but WITH LOCKS ON THE SMALL DRAWERS ONLY.....shpg. wt. 230 lbs.

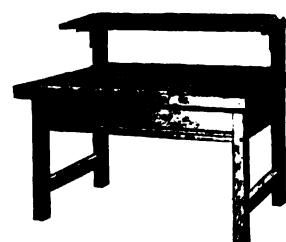
No. 9804 Single Manual Training Bench



Top measures 52" long, 22" wide and the bench is 30" high. Tool recess is 7" wide and is complete with tool rack at rear. Drawer measures $30\frac{3}{4}$ " wide, $14\frac{3}{4}$ " front to back and 5" deep, inside measurements. Bench is furnished with rapid-thread, quick-action vise with dog. Bench may be had with metal or wood base.

- No. 9804—As illustrated, WITHOUT LOCKS.....shpg. wt. 180 lbs.
No. 9805—Same as No. 9804, but WITH LOCKS.....shpg. wt. 180 lbs.
No. 9700—Wood base, without drawer, as illustrated.....shpg. wt. 150 lbs.
No. 9704—Similar to No. 9700, but with one drawer, WITHOUT LOCK.....shpg. wt. 160 lbs.
No. 9705—Same as No. 9704 but WITH LOCK.....shpg. wt. 160 lbs.

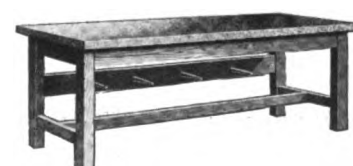
No. 9739 Stain Bench



Bench is 27" wide, 54" long and 32" high. Body of selected Oak, top of Birch or Maple, $2\frac{3}{4}$ " thick built up of slats, with $\frac{3}{4}$ " openings between each slat, reinforced with $3\frac{3}{4}$ " side pieces. Shelf above top measures 7" wide and 54" long, and has retaining rim or rail at back and ends. Bench is equipped with galvanized iron drip pan.

- No. 9739—As illustrated.....shpg. wt. 220 lbs.

No. 9737 Glue Bench



Bench is 24" wide, 72" long, and is 32" high, provided with four wood pegs at the rear for hand screw clamps. Built of selected Oak, natural finish. Top is covered with galvanized iron.

- No. 9737—As illustrated.....shpg. wt. 260 lbs.

Refer to Welch Specifications in the Drafting Section

W. M. Welch Manufacturing Company, 1516 Orleans St., Chicago, Ill., Factory, Manitowoc, Wis.